



## Product: [8221](#)

Analog Video, RG59, #22 Solid BCCS, 85% BC Braid, PVC Jacket

### Product Description

22 AWG solid bare copper-covered steel conductor, foam polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

### Technical Specifications

#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
22	Solid	BCCS - Bare Copper Covered Steel	0.025 in	1

Conductor Count: 1

##### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.146 in

##### Outer Shield Material

Type	Material	Coverage [%]
Braid	BC - Bare Copper	95 %

##### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.242 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
50 Ohm/1000ft	50 Ohm/1000ft	2.6 Ohm/1000ft	2.6 Ohm/1000ft

##### Capacitance

Nom. Capacitance Conductor to Shield
16.3 pF/ft

##### Inductance

Nominal Inductance
0.104 $\mu$ H/ft

##### Impedance

Nominal Characteristic Impedance
80 Ohm

##### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.44 dB/100ft
10 MHz	0.9 dB/100ft

50 MHz	2 dB/100ft
100 MHz	2.9 dB/100ft
200 MHz	4.1 dB/100ft
400 MHz	5.9 dB/100ft
700 MHz	7.8 dB/100ft
900 MHz	8.8 dB/100ft
1000 MHz	9.9 dB/100ft

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.3 ns/ft	78 %

#### High Freq

Frequency [MHz]
1 MHz
10 MHz
50 MHz
100 MHz
200 MHz
400 MHz
700 MHz
900 MHz
1000 MHz

#### Voltage

Non-UL Voltage Rating
300 V RMS

#### Temperature Range

Non-UL Temp Rating:	75°C
Operating Temp Range:	-40°C To +75°C

#### Mechanical Characteristics

Bulk Cable Weight:	34 lbs/1000ft
Max Recommended Pulling Tension:	88 lbs
Min Bend Radius/Minor Axis:	2.5 in

#### Standards

CPR Euroclass:	Eca
RG Type:	59/U Type
Series Type:	Series 59

#### Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

#### Flammability, LS0H, Toxicity Testing

## Plenum/Non-Plenum

Plenum (Y/N):

No

## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
8221 010500	Black	Reel	500 ft	612825355526
8221 010U500	Black	UnReel	500 ft	612825377009
8221 0101000	Black	Reel	1,000 ft	612825355502
8221 010U1000	Black	UnReel	1,000 ft	612825355519

Footnote:

C - CRATE REEL PUT-UP.

## History

Update and Revision:

Revision Number: 0.246 Revision Date: 04-28-2020

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable](#):

[8221 0101000](#) [8221 010U500](#) [8221 010500](#) [8221 010U1000](#)